



Your Navy in the Southwest
Partners with San Diego since 1917

NDIA Gold Coast Small Business Procurement Event

13 August 2014

*Rear Admiral Patrick “Boog” Lorge
Commander, Navy Region Southwest*

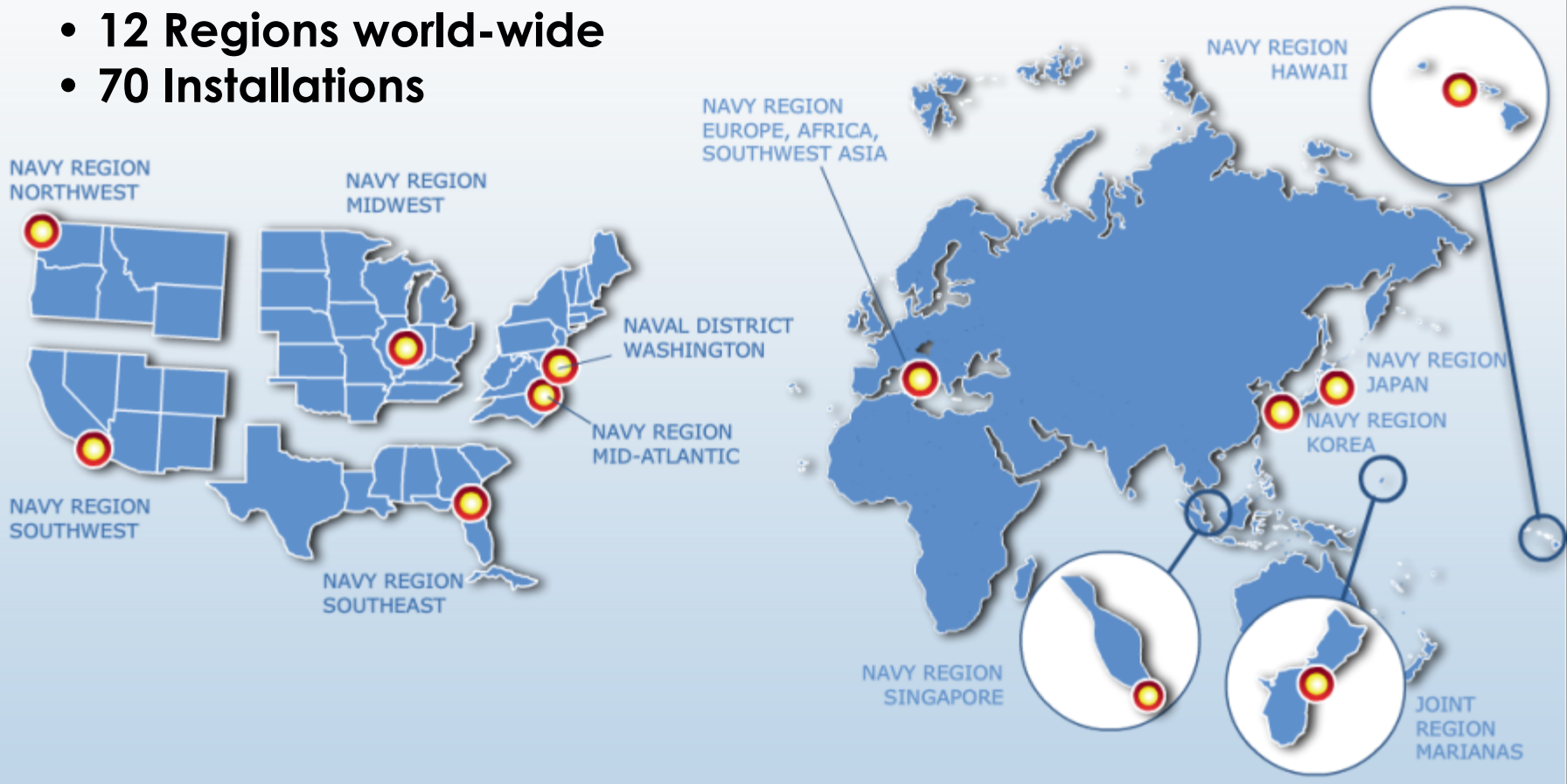


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Worldwide Support to the Fleet

- 12 Regions world-wide
- 70 Installations





National Rebalance to the Pacific

Includes:

- 40 nations
- 60% of the world's population
- More than half of the world's surface
- 30% of the world's GDP
- 70% of the world's oil transits through the Strait of Malacca

• Top 4 trading partners:

– Canada, China, Mexico, Japan

• 6 largest militaries:

– China, U.S., India, Russia, North Korea, South Korea



60% of the fleet to the Pacific



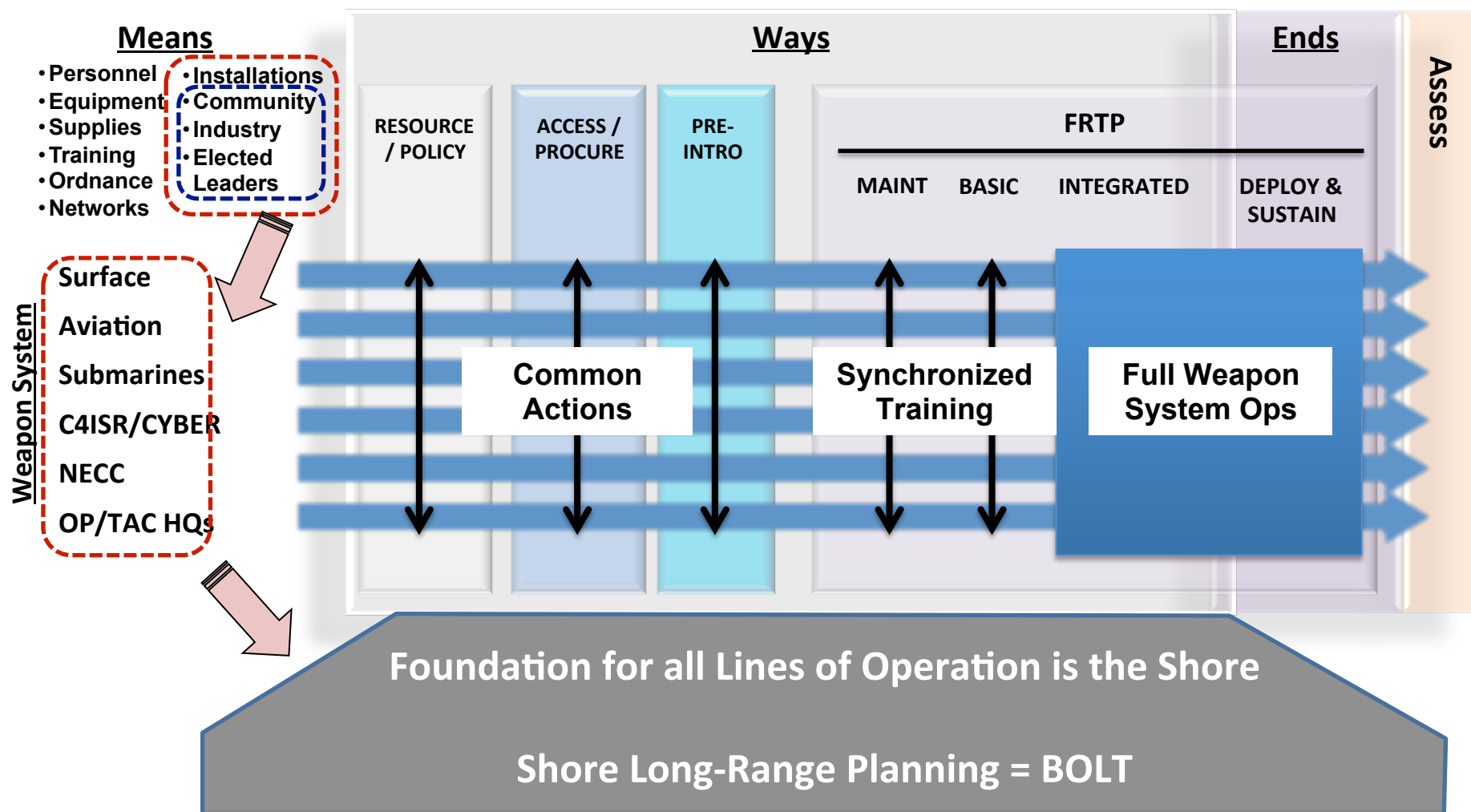
Train Locally, Operate Globally





Readiness Kill Chain

Governance / C2 – Drives integration & synchronization vertically across weapons systems & horizontally across the readiness lifecycle





NRSW Lines of Operation

- **Rebalance**
 - Near, Mid, Long
- **Energy**
 - Culture
 - Efficiency
 - Sustainability
 - Security
- **Encroachment**
 - Development
 - Regulatory
 - Legislative
- **Environment**
 - Stewardship: Air, Sea, Land



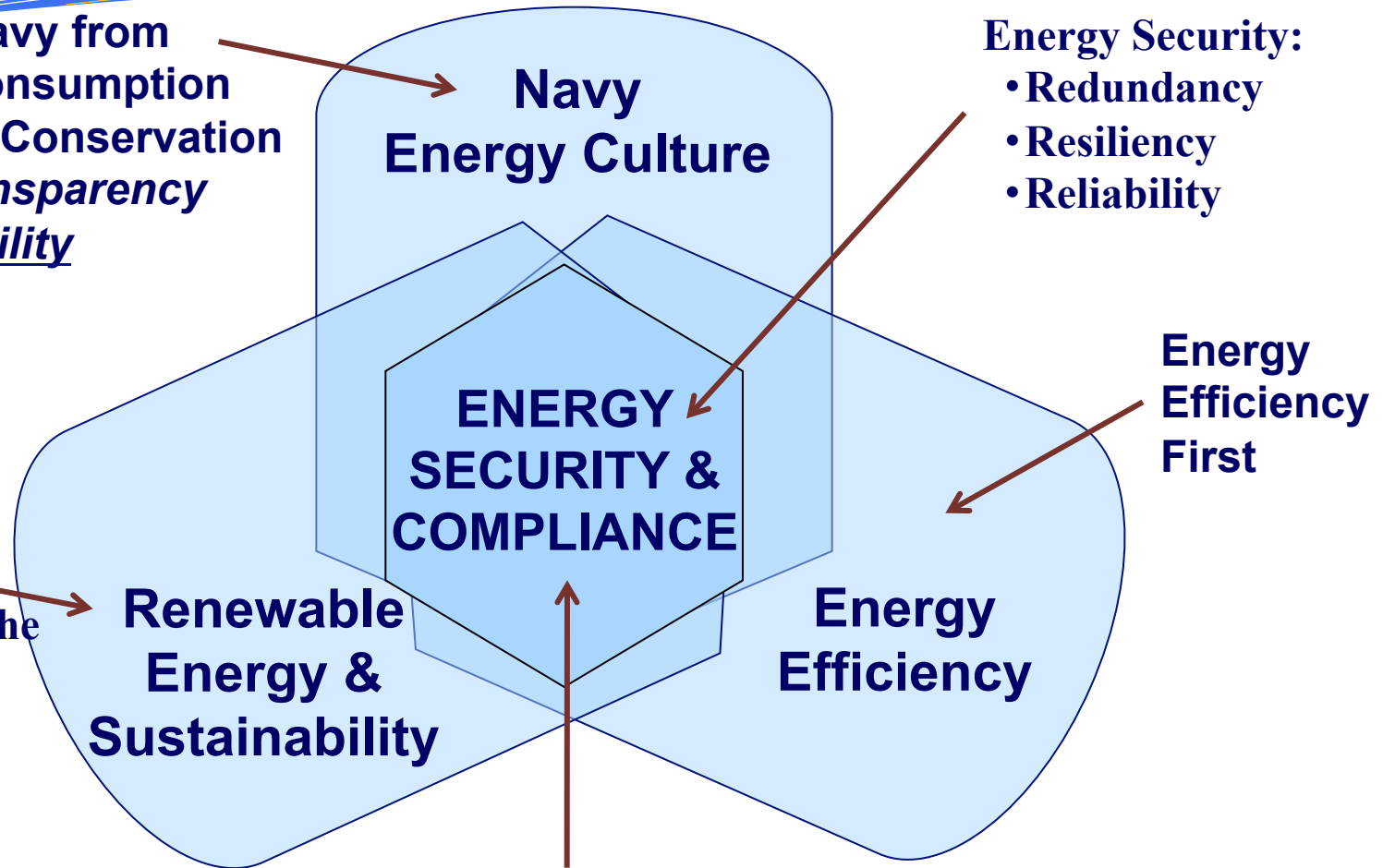


Navy Shore Energy Strategy

**Transform Navy from
Culture of Consumption
to Culture of Conservation
Through Transparency
& Accountability**

**The *Right*
Technology at the
Right Time**

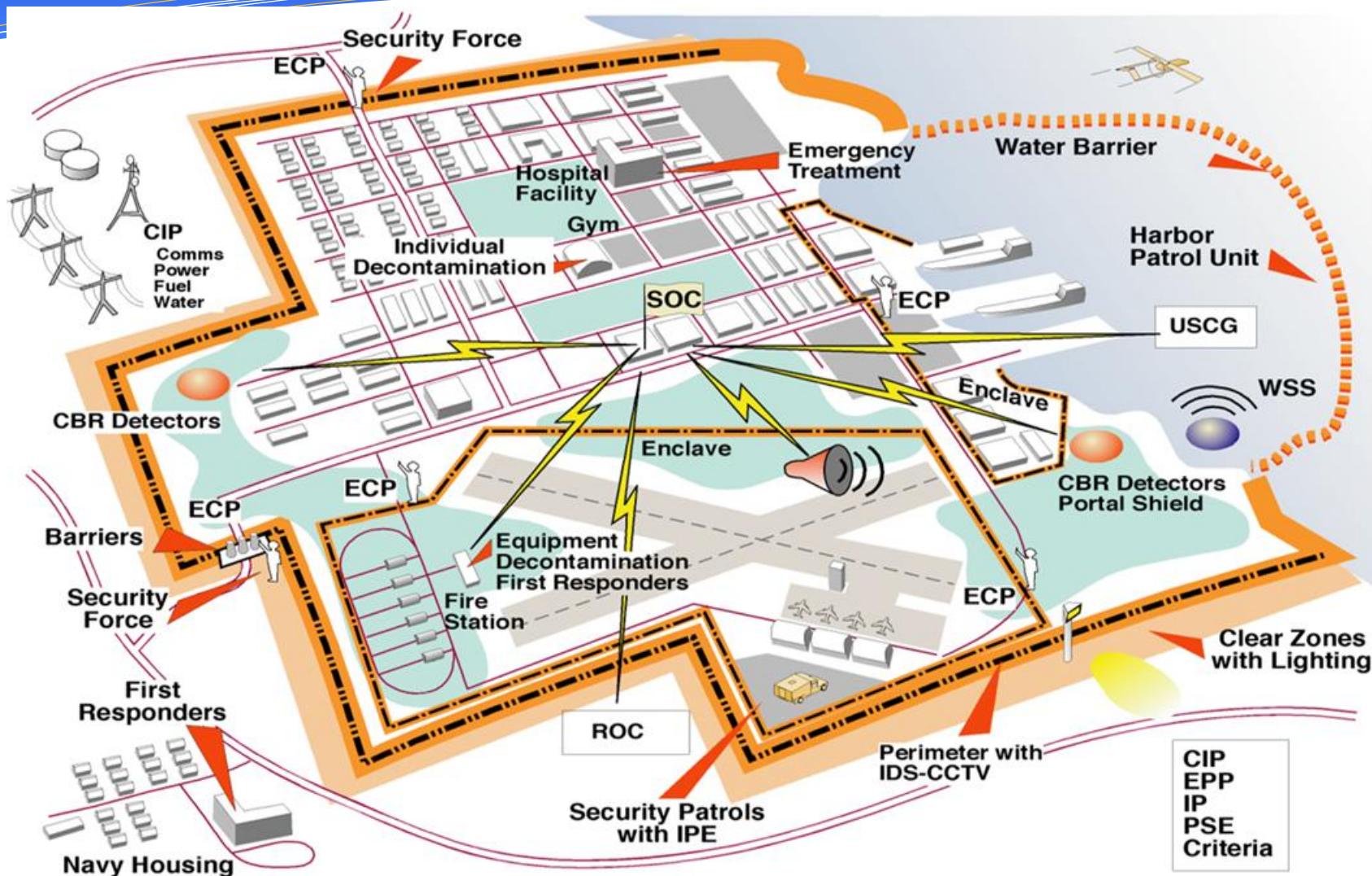
- Watch
- Partner
- Lead



“Compliance” is Unique to the Shore

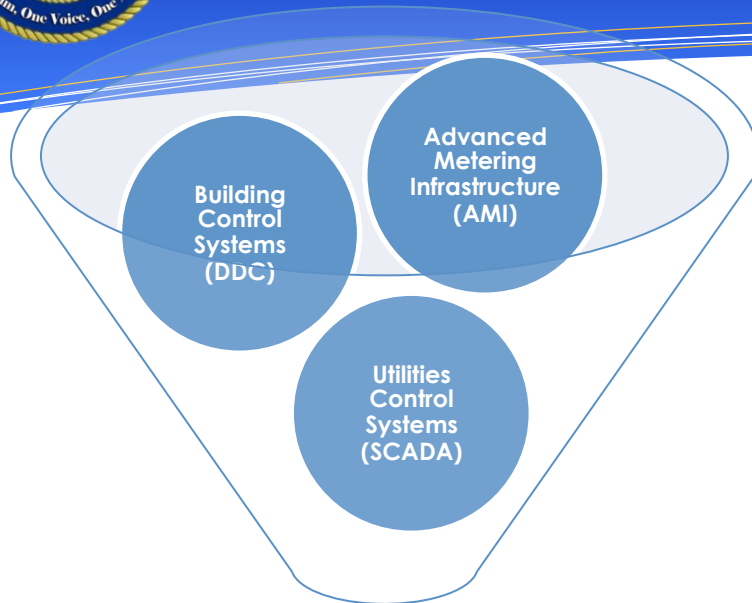


Shore Energy Starts with Shore ATPF Program Architecture





Navy Smart Grid



Systems Integration Software & Hardware
Personnel Training
Organizational Change



SMART GRID

- **Market Driven Near Real Time Energy Management**
- **Demand Response, Peak Shaving, Load Leveling**
- **Condition Based Targeted Maintenance and Repair**
- **Predictive maintenance, Remote Diagnostics**
- **Cyber secure utilities and energy systems**



Operational Guiding Principles

Guiding Principle 1



The Capabilities shall enable the means to achieve a better financial “bottom line.”

Guiding Principle 2



The Capabilities shall enable the means to achieve improved Mission Readiness AND shall NOT risk Mission Readiness through information technology.

Guiding Principle 3



The capabilities shall enable recognition of new opportunities and enable the ability to *LEAP* forward when new technologies, new regulatory changes, ... new anything appear.

Imperatives to SmartGrid Strategic Success



Smart Grid Architecture

Smart Grid

- Advanced Metering Infrastructure
- Substation & Distribution Automation
- Two-Way Communications & Control
- Adaptive Relaying

Cyber Security

- Virtual Secure Enclave
- Live Action Network
- Secure Distributed Monitors
- Situational Awareness

Dynamic Control

- Load Control Systems
- Islanding Control System
- Energy Management System
- Seamless Grid Synchronization

Demand Side Management

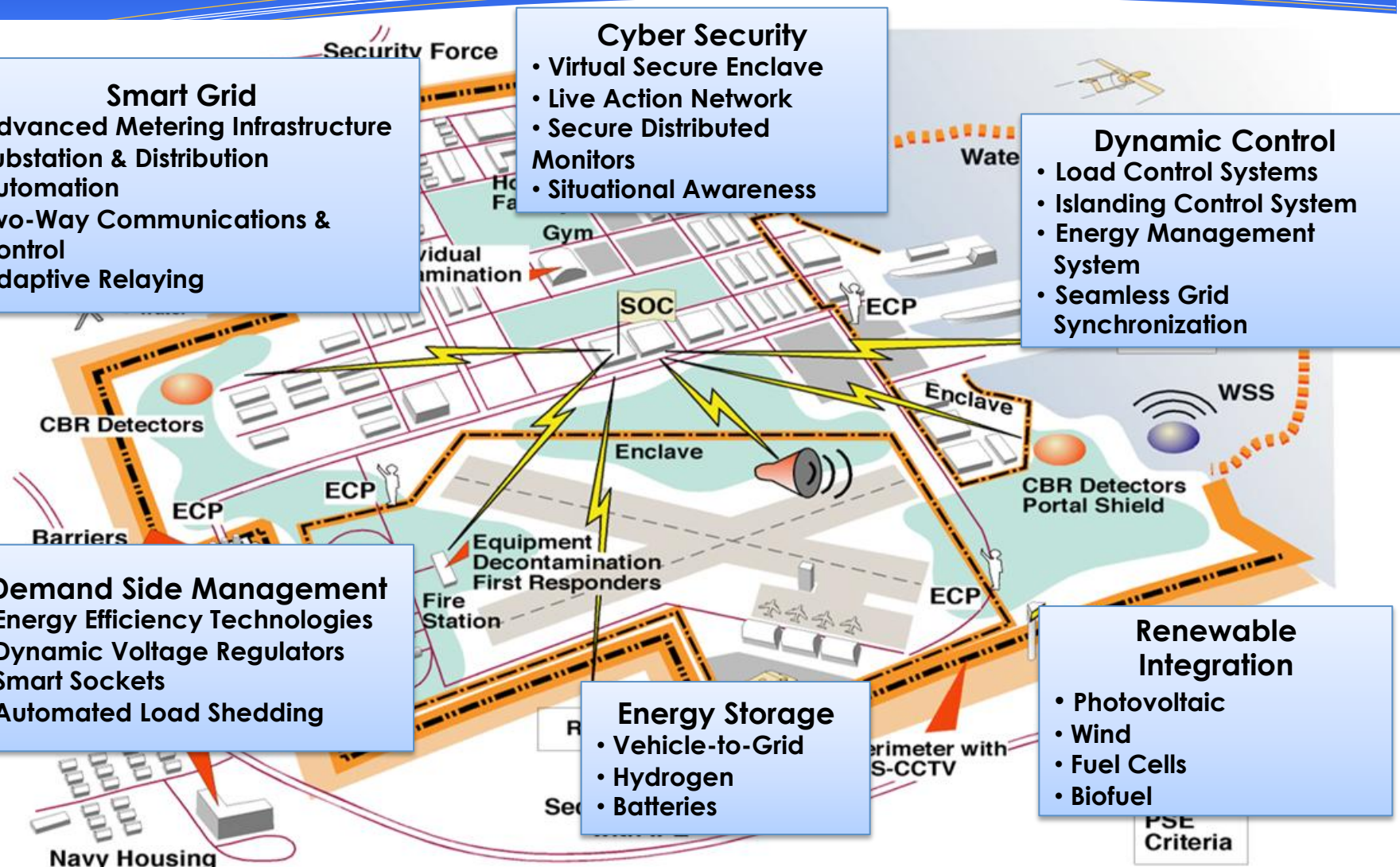
- Energy Efficiency Technologies
- Dynamic Voltage Regulators
- Smart Sockets
- Automated Load Shedding

Energy Storage

- Vehicle-to-Grid
- Hydrogen
- Batteries

Renewable Integration

- Photovoltaic
- Wind
- Fuel Cells
- Biofuel





Questions?

NAVY REGION SOUTHWEST

Where the Pacific Fleet Begins

